

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA3659WE

This Certificate issued to Northrop Grumman Systems Corporation
21240 Burbank Blvd.
Woodland Hills, CA 91367-6675

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.*
(See Type Certificate Data Sheet No. A20WE dated May 1, 1977)

Original Product Type Certificate Number: A20WE

Make: Boeing Company

Model: 747-200 Series

Description of Type Design Change: Installation of Litton LTN-72R INS/RNAV and/or LTN-72 INS navigation systems in a triple configuration in accordance with FAA sealed Litton Top installation Drawing No. 454065-01 "B" revision dated May 17, 1978, or later sealed revision. Litton Airplane Flight Manual Supplement No. APD 2-78, dated June 20, 1978, or later approved revision are required with this modification.

Limitations and Conditions: The approval of this change in Type Design applies only to Boeing Model 747-200 series airplanes only. This approval should not be extended to other aircraft of this model on which other approved previously approved modifications are incorporated unless it is found by the installer that the interrelationship between this change and any of those previously approved modifications will introduce no adverse effect upon the airworthiness of the aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: October 13, 1977

Date reissued: April 12, 2016

Date of issuance: June 21, 1978

Date amended:



By direction of the Administrator

(Signature)
Supervisor, Technical & Administrative Support Staff
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.